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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/809,203	03/25/2004	Toshimitsu Hirai	9319S-000716	5989	
27572	7590 03/23/2006		EXAMINER		
HARNESS, DICKEY & PIERCE, P.L.C.			KIM, SU C		
P.O. BOX 8	28 ELD HILLS, MI 48303		ART UNIT PAPER NUMBER		
<i>DDO</i> O · · · · · · · · · · · · · · · · · ·			2823		
			DATE MAILED: 03/23/2006	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	A Ita-Ata-a Na	A 12 44				
	Application No.					
Office A-4i-m Commence	10/809,203					
Office Action Summary	Examiner	Art Unit				
	Su C. Kim	2823				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence ad	ldress			
• •			0) 5 4) (0			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a and will apply and will expire SIX (6) MOI aute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this co BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 25	March 2004					
· _ · _ · 	nis action is non-final.					
3) Since this application is in condition for allow		ters, prosecution as to the	e merits is			
closed in accordance with the practice under	•	·				
Disposition of Claims	,					
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application	on					
4a) Of the above claim(s) <u>6-8</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,5 and 9-11</u> is/are rejected.						
7)⊠ Claim(s) <u>2-4,12 and 13</u> is/are objected to.						
8) Claim(s) are subject to restriction and	/or election requirement.					
Application Papers	·					
9) The specification is objected to by the Examin	nor					
· <u> </u>		jected to by the Evaminer				
10)☑ The drawing(s) filed on <u>25 March 2004</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corre			FR 1 121/d)			
11) The oath or declaration is objected to by the	· · · · · · · · · · · · · · · · · · ·	•	, ,			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreig	an priority under 35 U.S.C. 3	§ 119(a)-(d) or (f)				
a) ⊠ All b) □ Some * c) □ None of:						
1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No						
						3. Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bure	•		9 -			
* See the attached detailed Office action for a li	• • • • • • • • • • • • • • • • • • • •	received.				
	·					
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) 🖂 Intervious	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date <u>3/25/04 & 2/15/06</u>. 	8) 5) Notice of I 6) Other:	Informal Patent Application (PTC	D-152)			
. Sportfolomian bate <u>or 2007 to 2 1000</u> .		 `				

REMARK / ARGUMENT

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By response to the restriction requirement mailed February 2006, Applicants provisionally elect the claims of Group II (claims 1-5 and 9-13), with traverse.

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group II, claims 1-5 and 9-13, in the reply filed on 2/21/2006 is acknowledged. The traversal is on the ground(s) that all groups of claims are sufficiently related to each other that an undue burden would not placed upon the examiner. This is not found persuasive because Group I (claims 6-8) is drawn to device, and Group II (claims 1-5 and 9-13) is drawn to method. Method and device are classified in two different classes, and two different search areas. Therefore, a burden would be placed examining all groups of claims upon the examiner. The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

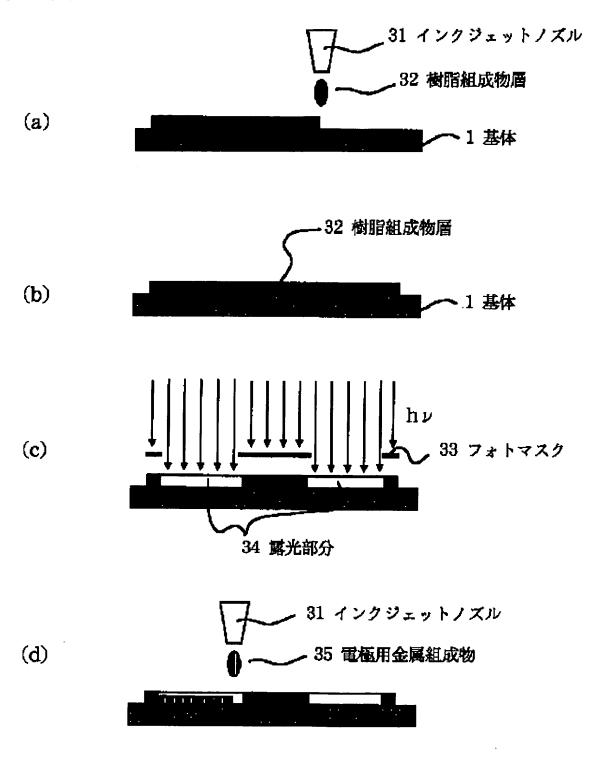
The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

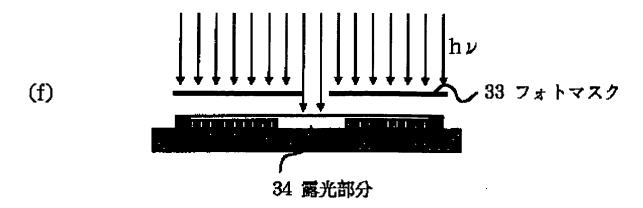
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

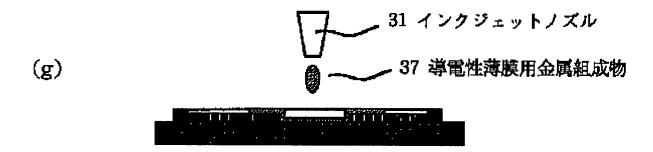
Claims 1, 5, 9, 10, & 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Kamishiro Kazuhiro (JP 2000-243254) ('hereafter Kamishro')

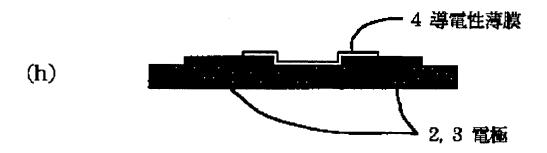
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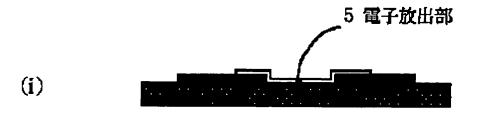


(e)









<u>Kamishro</u> discloses a method for manufacturing electron emitters as claimed. **See all the FIGS** where Kamishro teaches the following limitations

1. Pertaining claim 1, <u>Kamishro</u> discloses a method for manufacturing electron emitters by providing pairs of element electrodes, and conductive layers connecting the element electrodes to each other on a substrate, the method comprising:

a step of forming banks 32 surrounding electrode-forming regions for forming the element electrodes 2 & 3 and conductive layer-forming regions 4 for forming the conductive (Drawing. 2 & 3)

a step of discharging first droplets toward the electrode-forming regions (Drawing 2 (a)-2(e));

and a step of discharging second droplets toward the conductive layer-forming regions (**Drawing 3-(g**)).

- Pertaining claim 5, <u>Kamishro</u> discloses an electron emitter manufactured by the method according to claim 1. (Product by rejected process claim, see rejected claim
 1)
- 3. Pertaining claim 9, <u>Kamishro</u> discloses a method for manufacturing an electron emitter

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comprising:

defining a pair of spaced apart electrode 2 & 3 forming regions on a substrate (Drawing 2 (c)-(d));

defining a conductive layer-forming region on the substrate, the conductive layer 4 forming region interconnecting the electrode-forming regions (**Drawing 3 (h)**);

forming a bank 32 encircling the electrode-forming regions and the conductive layer forming region (Drawing 2-(c));

discharging first droplets **35** toward the electrode-forming regions to form a pair of element electrodes (Fig. 3 (d)); and

discharging second droplets **37** toward the conductive layer-forming regions to form a conductive layer connecting the element electrodes to each other (**Drawing 3-(g)**).

4. Pertaining claim 10, <u>Kamishro</u> discloses the method of claim 9, further comprising treating a portion of the conductive layer 4 to form an electron-emitting section 5.

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5. Pertaining claim 11, <u>Kamishro</u> discloses the method of claim 9, further comprising removing the bank after the conductive layer and element electrodes are formed (**Drawing 3-(g) to 3(h)**, the blank 32 has been removed).

Allowable Subject Matter

Claims 2-4 & 12-13 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Su C. Kim whose telephone number is (571) 272-5972. The examiner can normally be reached on Monday - Thursday, 9:00AM to 7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Su C. Kim 03/18/2006

> W. DAVID COLEMAN PRIMARY EXAMINER